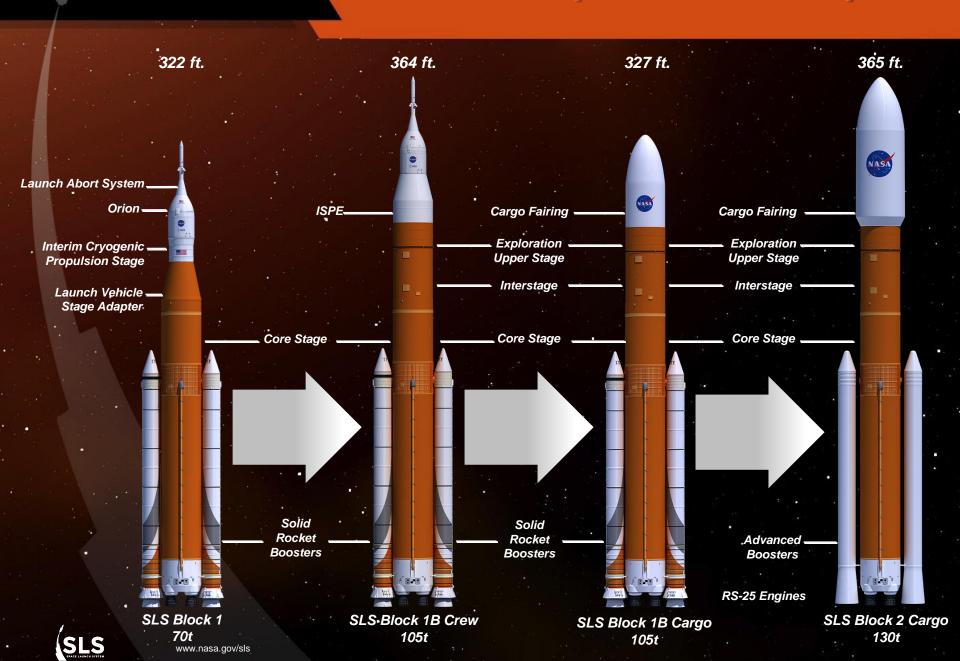


Evolution of NASA's Space Launch System





SLS Payload Accommodations

Fairing Availability

Universal Stage Adapter offers opportunity for co-manifested payloads with Orion spacecraft or near-term 8.4-meter lower-height accommodations.

Universal Stage
Adapter
accommodations
early as second SLS
flight; 8.4- and 10meter fairings
available in the midand late-2020s,
respectively.



5m fairing w/ science payload



Science Missions



Orion with shortduration hab module



8m fairing with largeaperture telescope



10m fairing with notional Mars payload

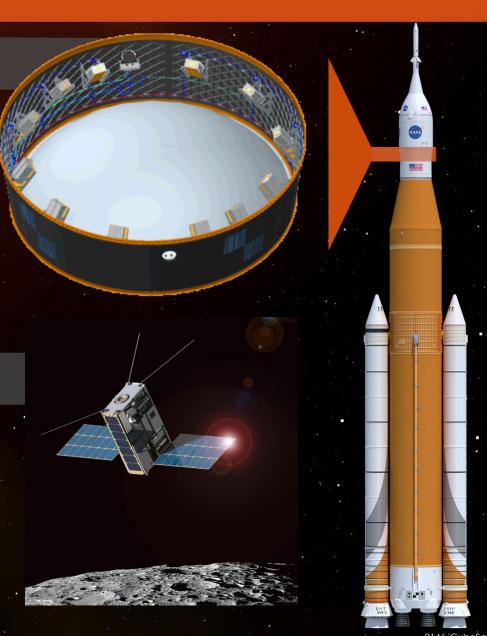
Secondary Payload Capability

Accommodations

- SLS for Exploration Mission-1 will include thirteen 6U payload locations
- 6U volume/mass is the current standard (14 kg payload mass)

Future Capability

Options for larger secondary payloads on evolved configurations of SLS are currently being evaluated



A History of Cooperation





Common Interest

Advanced Upper Stage Engine Technologies

Booster/
Engine
Development

Advanced Manufacturing

Opportunities

Affordable Upper Stage Engine Program Studies

American Kerosene Engine Studies

Selective Laser Melting Materials Characterization



THE ADVENTURE BEGINS NOW.



SLS

#JOURNEYTOMARS

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